

F0001489703 - I83K01

BATCH RECORDS	
Oral Solids - 046	
SU 10398	
I83K01	
F0001489703	
Half Flap Document Wallet A4	
Available in 05/05/2019. Bulk 1000000. Group 2625000. Group 2557700. Code 1000000. Red 2625000. Yellow 1000000.	

RECORDS CENTER  
YOU are responsible  
return of this item  
Records Center  
Ref ID: 332651  
Location: 31 0523

## PAGE: 1 of 20

PRODUCT:	SU10398	LOT:	I83K01
PHARMACEUTICAL FORM:	Granulated	DOSAGE:	75% W/W in API
FORMULA No.:		COMM.:	<u>RD0511P0SUG</u>
PROCESSING START:	<u>10 / 04 / 02</u>	PREPARATION DATE:	<u>04 / 01</u>
THEORETICAL QUANTITY:	<u>46663</u>	PROCESSING FINISH:	<u>11 / 04 / 01</u>
	(T)	QUANTITY OBTAINED:	<u>4280</u> yield: <u>91.7</u> %
SCOPE OF THE PREPARATION: Stability studies and clinical trial			

[illegible]

[signature]

{signature}

Edition No.: 7 of 10/05/99  
Substitutes Edition No.: 6 of 03/11/97

Page: 2 of 20

Dosage: 75% W/W in API

[illegible]

**NOTE:** THE ANALYTIC TITER OF THE API IS EXPRESSED IN RESPECT TO THE FREE BASE AND IS 73.3%. THE

THEORETICAL TITER WITH RESPECT TO THE FREE BASE IS :  $50/66.3 \times 100 = 74.85\%$ , OF WHICH A PRACTICAL TITER OF 97.93% IS OBTAINED AS EXPRESSED ON THE API AND USED FOR THE PRACTICAL DOSE

Verifier's signature: \_\_\_\_\_ [signature]

Checked by: \_\_\_\_\_ [signature]

\* NOTE 2: UNIT DOSE EXPRESSED PER 100 mg OF GRANULATE

Product: SU10398

Lot: I83K01

Page: 3 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

**ACTIVE PRINCIPLE: VERIFICATION OF THE PRACTICAL QUANTITY CALCULATIONS AND AVERAGE TITER**

Active principle: SU 10398 Provided quantity: \_\_\_\_\_ A)

Lot: (A) -- 5975-HTM-0002-N2 Titer as sampled: \_\_\_\_\_

Active principle: \_\_\_\_\_ Provided quantity: \_\_\_\_\_ B)

Lot: \_\_\_\_\_ Titer as sampled: \_\_\_\_\_

Active principle: \_\_\_\_\_ Provided quantity: \_\_\_\_\_ C)

Lot: \_\_\_\_\_ Titer as sampled: \_\_\_\_\_

Total theoretical quantity (Pt) = \_\_\_\_\_ g (Unit dose x theoretical launch quantity)

Calculated theoretical quantity (Pc) = \_\_\_\_\_ g (A x Tit. A + B x Tit. B + C x Tit. C)

Total practical quantity (Pp) = \_\_\_\_\_ g (A + B + C)

**NOTE:**

1) The correspondence between the weighed active principle quantity and the practical active principle to be used is verified when  $Pt = Pc$ .

This correspondence is also verified when the two values differ and the divergence between the provided quantity and the requested quantity is due exclusively to the weighted values in accordance with the divergence limits set out in procedure SF.TF 015/0 ( $\pm 0.5\%$ ).

2) If the condition in point 1) is not fulfilled, suspend the processing and inform the Lot Formation Center.

3) If the condition in point 1) is fulfilled, proceed to fill in the following points on this page.

*NOT NECESSARY SINCE THE API WILL BE WEIGHED IN THE  
DEPARTMENT [initials] 06 APRIL 2001*

Average titer weight =  $Pt/Pp \times 100 =$  \_\_\_\_\_ %

Active principle: \_\_\_\_\_

Quantity to use =  $Pt/Titer^* \times 100 =$  \_\_\_\_\_ g (D)

Compensation excipient: \_\_\_\_\_

Quantity to use =  $Pe - (D - Pt) =$  \_\_\_\_\_ g

**NOTE:**

Pt = Weight in grams of the active principle considering a 100% titer

Pe = Compensation excipients weight in function of the active principle at 100% titer

\* = Should multiple lots be used, the titer will be the average weight, as calculated considering the quantity of each lot.

Operator's signature: \_\_\_\_\_

Verifier's signature: \_\_\_\_\_

Edition No.: 7 of 10/05/99  
Substitutes edition No.: 6 of 03/11/97

Checked by: \_\_\_\_\_ [signature]

Pharmacia  
& Upjohn

Pharmaceutical Development / Oral solids and warehousing

Product: SU10398

Lot: I83K01

Page: 4 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

### CLEANING OF THE EQUIPMENT AND ROOMS

Once the processing has been completed clean the processing rooms with: 5% PYRONEG AQUEOUS SOLUTION

(CLEANING METHOD SO/OM/019)

Once the processing has been completed, clean the equipment with: 5% PYRONEG AQUEOUS SOLUTION

(CLEANING METHOD SO/OM/019)

### PROCESSING IDENTIFICATION LABELS

CONFORMITY VERIFICATION LABELS	32	DATE:	06/04/01	SIGNATURE:	[signature]
LABELS DELIVERED	No.: <del>10/04/01</del>	DATE:	10/04/01	SIGNATURE:	[signature]
ADDITIONAL DELIVERED	No.:	DATE:		SIGNATURE:	
LABELS USED	No.: 30 22	DATE:	11/04/01	SIGNATURE:	[signature]
DETERIORATED LABELS	No.:	DATE:		SIGNATURE:	
LABELS RETURNED	No.: [initials] 21/5/01 10	DATE:	11/04/01	SIGNATURE:	[signature]

(The returned labels are destroyed)

### LABEL MODEL

Pharmacia & Upjohn – Oral Solids Section

Granulated SU10398 75% W/W in API

LOT: I83K01

Prep. Date: 04/2001

FORMULA No.:

Date: 10/04/01 Label No. 16 of 16

[initials] 06/04/01

NOTE:

Pharmacia & Upjohn – Oral Solids Section  
Product: Granulated SU10398 75% W/W in API  
Prep. Date: 04/2001  
LOT: I83K01  
FORMULA No.:  
Date: 10/04/01  
[signature]  
Label No. 16 of 16

# Pharmacia & Upjohn

Pharmaceutical Development / Oral solids and warehousing

Product: SU10398

Lot: I83K01

Page: 5 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

Room: 72

WEIGHT VERIFICATION OF  
THE RAW MATERIALS

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 004 10	1	[initials] 06/04/01 <b>Check the weight of the active-principle/s ACCORDING TO THE INDICATIONS IN THE SCHEDULED DEVIATION PROCEDURE NUM. 13/01 WEIGH OUT THE INDICATED QUANTITY OF THE ACTIVE PRINCIPLE.</b>		[signature]	[signature]
	1/1	PRODUCT: [initials] 06/04/01 SU10248 SU10398 LOT: (A) 5975-MTM-0002-N2 PRACTICAL WEIGHT 3574.0 g	Lot: (A) 5975-MTM-0002-N2 Gross: 3874 g Tare: 300 g Net: 3574 g Scale ID No.: 50-BC-32		
	1/2	PRODUCT: _____ _____ LOT: _____ PRACTICAL WEIGHT _____ g	Lot: _____ Gross: _____ g Tare: _____ g Net: _____ g Scale ID No.: _____		
	1/3	[initials] 02/05/01 PRODUCT: _____ _____ LOT: _____ PRACTICAL WEIGHT _____ g	Lot: _____ Gross: _____ g Tare: _____ g Net: _____ g Scale ID No.: _____		

Edition No.: 7 of 10/05/99  
Substitutes edition No.: 6 of 03/11/97

Checked by: [signature]

Pharmacia  
& Upjohn

Pharmaceutical Development / Oral solids and warehousing

Product: SU10398

Lot: 183K01

Page: 6 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

Room: 72

WEIGHT VERIFICATION OF  
THE RAW MATERIALS

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
10/04/01	2	Check the weight of the following raw materials:			
	2/1	PRODUCT: <u>MANNITOL</u>	Lot: <u>AE130</u>	[signature]	[signature]
			Gross: <u>569.00</u> g		
	LOT: <u>AE130</u>	Tare: <u>13.00</u> g			
	PRACTICAL WEIGHT <u>556.0</u> g	Net: <u>556.00</u> g			
	Scale ID No.: <u>SO/BL/32</u>				
10/04/01	2/2	PRODUCT: <u>CROSCARMELOLOSE SODIUM S10</u>	Lot: <u>AA10E113</u>	[signature]	[signature]
			Gross: <u>153.00</u> g		
	LOT: <u>AA10E113</u>	Tare: <u>13.00</u> g			
	PRACTICAL WEIGHT <u>140.0</u> g	Net: <u>140.00</u> g			
		Scale ID No.: <u>SO/BL/32</u>			
10/04/01	2/3	PRODUCT: <u>POLYVINYLPIRROLIDONE K25</u>	Lot: <u>AA10G041</u>	[signature]	[signature]
			Gross: <u>246.30</u> g		
	LOT: <u>AA10G041</u>	Tare: <u>13.00</u> g			
	PRACTICAL WEIGHT <u>233.3</u> g	Net: <u>233.30</u> g			
		Scale ID No.: <u>SO/BL/32</u>			
	2/4	PRODUCT: _____	Lot: _____		
			Gross: _____ g		
	LOT: _____	Tare: _____ g			
	PRACTICAL WEIGHT _____ g	Net: _____ g			
		Scale ID No.: _____			
	2/5	PRODUCT: _____	Lot: _____		
			Gross: _____ g		
	LOT: _____	Tare: _____ g			
	PRACTICAL WEIGHT _____ g	Net: _____ g			
		Scale ID No.: _____			

Edition No.: 7 of 10/05/99  
Substitutes edition No.: 6 of 03/11/97

Checked by: \_\_\_\_\_ [signature]

Product: SU10398

Lot: I83K01

Room: 72

Page: 7 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

WET GRANULATION  
in DIOSNA

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 10	3	<b>Preparation of the granulated solution</b>		[signature]	[signature]
	3/1	Using a sterile container, collect approximately 150 mL of contrast T.D.I. Water to be used and send the sample to determine its bacterial load.	T.D.I. Water Contrast No.: 42 mL collected: 300		
	3/2	Weigh out 610 g of <u>T.D.I. WATER</u> <u>SEE NOTE [initials] 06/04/01</u> Warm the solvent to a temperature between _____ °C and _____ °C and disperse under shaking: _____ _____ _____ Let it cool until a practically clear solution is obtained. [initials] 06/04/01  Addition of tensioactive agents <input type="checkbox"/> Weight _____ g of _____ _____ Warm the solvent to a temperature between _____ °C and _____ °C and disperse under shaking: _____ _____ Combine the tensioactive solution with the solution of point _____ under shaking.	Solvent Quantity Gross: 753 g Tare: 143 g Net: 610 - 600 g 10/04/01 [initials] Temperature: <del>TOTAL H<sub>2</sub>O 1210 mL</del> °C Room temperature  <input type="checkbox"/>  Solvent Quantity per Tensioactive Gross: _____ g Tare: _____ g Net: _____ g Temperature: _____ °C  <input type="checkbox"/>	[signature]	[signature]



Product: SU10398	Lot: I83K01	Room: 72	Page: 8 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	WET GRANULATION in DIOSNA	

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 10	4	<b><u>Preliminary sieve analysis of the raw materials</u></b>  4/1 Sieve analyze the raw materials MANNITOL CROSCARMELOLOSE SODIUM POLYVINYLPIRROLIDONE K25  through a 1-1.5 mm gauge sieve  4/2 Equipment type: SIEVE	Equipment used: SIEVE ID number: / Cleaning verification: OK Gauge: 1 mm	[signature]	[signature]
01 04 10	5	<b><u>Mixing</u></b>  OF POINTS Load the raw materials from point 1.2.2 into the Diosna granulator and mix for 4 minutes under the following conditions: Principle shaker speed: I Crusher speed: I *MODIFY IN PROCESS IF NEEDED [initials] 06/04/01	ID number: SO.9U.DA Cleaning verification: OK  Principle shaker speed: I Crusher speed: I Start time: 14:03 End time: 14:07	[signature]	[signature]
01 04 10	6	<b><u>Wetting</u></b> 6/1 Wet the powder with the solution prepared in point 3/2 Using a peristaltic pump <input checked="" type="checkbox"/> *MODIFY THE FOLLOWING PROCESS IF NEEDED [initials] 06/04/01 Pump capacity 250-350 g/min. During the wetting employ the following conditions: Principle shaker speed: I Crusher speed: I	Peristaltic pump model: LOHER ID number SO-PM-07 Cleaning verification: OK Pump capacity 280 g/min. Pump r.p.m. 38-40 Principle shaker speed: I Crusher speed: I Start time: 14:10 End time: 14:15	[signature]	[signature]

Product: SU10398

Lot: I83K01

Room: 72

Page: 9 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

WET GRANULATION  
in DIOSNA

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 10	6/2	IN ACCORDANCE WITH THE FINAL NOTE, [initials] 06/04/01 If needed, add <u>THE APPROPRIATE QUANTITY OF WATER</u> at the end of the wetting while keeping the conditions from point 6/1 unchanged.  RECORD THE QUANTITY OF ADDED WATER IN EACH SINGLE PART. STOP ADDING WATER WHEN THE MIX IS JUDGED TO BE SUFFICIENTLY WET. [initials] 06/04/01	Solvent type: <u>T.D.I.H<sub>2</sub>O</u> Added quantity: <u>600</u> T.D.I. Water contrast No.: <u>42</u> Start time: _____ End time: _____ <i>DATA NOT REGISTERED IN PROCESS</i> T.D.I. Water contrast No.: _____ mL collected: <u>[initials] 02/05/01</u>	[signature]	[signature]
	6/3	If the T.D.I. Water contrast is different from that in point <u>3</u> , using a sterile container, collect approximately <u>150</u> ml of T.D.I. Water and send the sample to have its bacteria load determined.			
01 04 10	7	<b>Granulation</b>		[signature]	[signature]
	7/1	Proceed to the granulation of the wet mass according to the following parameters: Principle shaker speed: <u>III</u> Crusher speed: <u>III</u> Granulation time: <u>At least 1</u> } *  * CHOOSE AND ADAPT THE CONDITIONS AND TIME BASED ON THE BEHAVIOR OF THE MIX IN GRANULATION. [initials] 06/04/01	Principle shaker speed: <u>II 1'30"</u> Crusher speed: <u>II 1'30"</u> Principle motor electricity absorption at the end of granulation: <u>58</u> A 2.90 Granulation time: <u>3</u> '  <u>II 1'30"</u> <u>II 1'30"</u>		

Edition No.: 6 of 03/11/97  
Substitutes edition No.: 5 of 15/09/97

Checked by: \_\_\_\_\_ [signature] \_\_\_\_\_

## Pilot Plan Formula Development

### Oral Solids Section

Product: SU10398	Lot: I83K01	Room: 72	Page: 10 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	WET GRANULATION in DIOSNA	

DATE	OPER. NO.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 10	8	<b>Drying</b>			
	8/1	Transfer the wet granulated mass into the <u>GLATT GPCG 5</u> type dryer and dry at a relative humidity of $\leq 2.5\%$ according to the following parameters:	Equipment: _____ <u>GLATT GPLG 5</u> ID number: <u>SO-LF-02</u> Cleaning verification: <u>OK</u>		
		Heater <input type="checkbox"/> [initials] 06/04/01 Temperature: _____ °C In a vacuum at <input type="checkbox"/> At an atmospheric pressure of <input type="checkbox"/> Fluid bed dryer <input type="checkbox"/>	  [initials] 06/04/01 Temperature read: _____ °C Degree of vacuum: _____ Start time: _____ End time: _____	[signature]	[signature]
	2				
	9/1	"AIR IN" Temperature: <u>60</u> °C "AIR IN" Volume: <u>120-160</u> Nm <sup>3</sup> /h	"AIR IN" Temperature: <u>60</u> °C "AIR IN" Volume: <u>120</u> Nm <sup>3</sup> /h		
	9/2	Product temperature to set on the thermometric probe: <u>40</u> °C	Temperature set on the probe: <u>10</u> °C	[signature]	[signature]
	9/3	Time for shaking the hoses: <u>15</u> "	Time for shaking the hoses: <u>10</u> "		
	9/4	Time between hose shakings: <u>3</u> minutes	Time between hose shakings: <u>2</u> minutes		
	9/5	Shaking Type WSG <input type="checkbox"/> GPCG <input checked="" type="checkbox"/>	Shaking Type WSG <input type="checkbox"/> GPCG <input checked="" type="checkbox"/>  Start time: <u>15:20</u> End time: <u>16:00</u> "AIR OUT" Temperature at the end of the process: <u>38</u> °C	[signature]	[signature]

Edition No.: 6 of 03/11/97 Substitutes edition No.: 5 of 15/09/97	Checked by: _____ [signature]
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Product: SU10398	Lot: 183K01	Room: 72	Page: 11 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	WET GRANULATION in DIOSNA	

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04- 11-	9/6	At the end of drying, sample the granulated mass from the dryer according to the manner described in SOP SG.CF 004 and perform the following checks:			
	-	Karl Fisher: <input type="checkbox"/>	Residual humidity: : 1.03 %		
	9/7	Weight loss at 110 °C for UNIT A CONSTANT WEIGHT	Thermobalance at 110 °C for 20 min		
	9/8	IS REACHED min. [initials] 06/04/01 <input checked="" type="checkbox"/>	Thermobalance ID number: SO-BL-42		
		Residual humidity limit ≤2.5 %	Karl Fischer ID number: <del>.....</del> [initials] 06/04/01		
	9/9	If the residual humidity value is not within the set limits, continue drying according to the provisions in point 9/1	<input type="checkbox"/>		
	-	If necessary modify:			
		-the drying temperature <input type="checkbox"/>	"AIR IN" Temperature: ..... °C		
	9/10	-the thermometric probe product temperature <input checked="" type="checkbox"/>	Heater temperature: ..... °C		
			Thermometric probe product temperature: ..... °C		
			Start time: ..... End time: .....		
			"AIR OUT" temperature at the end of the process: ..... °C		
	9/11	At the end of drying, sample the granulated mass from the dryer according to the manner described in SOP SG.CF 004 and perform the following checks again:	[initials] 02/05/01		
		Karl Fisher: <input type="checkbox"/>	Residual humidity: : ..... %		
	9/12	Weight loss at 110 °C for UNIT A CONSTANT WEIGHT	Thermobalance at ..... °C for ..... min		
		IS REACHED min. [initials] 06/04/01 <input checked="" type="checkbox"/>	Thermobalance ID number: .....		
	9/13	Residual humidity limit ≤2.5 %	Karl Fischer ID number: .....		

Product: SU10398	Lot: 183K01	Room: 72	Page: 12 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	WET GRANULATION in DIOSNA	

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 10	10	<b>Final Calibration</b>			
	10/1	Calibrate the dried granulated mass using <u>VIANI OSCILLATING GRANULATOR</u> .....	Equipment used: ..... <u>VIANI OSCILLATING GRANULATOR</u> .....	[signature]	[signature]
	10/2	that is equipped with a sieve with a gauge of <u>1000</u> µm	ID number: ..... <u>SO-GS-03</u> ..... Cleaning verification: ..... <u>OK</u> ..... Gauge: ..... <u>1000</u> ..... µm Start time: <u>16:10</u> End time: <u>16:15</u>		
	10/3	At the end of calibration, collect the granulated mass obtained in the appropriate container/s of ..... <u>DOUBLE P.E. BAG</u> ..... ..... .....	<input checked="" type="checkbox"/>		

Product: SU10398	Lot: I83K01	Room: 72/69	Page: 13 of 20
Pharmaceutical form: Granulated		Dosage: 75% W/W in API	
Granulation completion			

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
11.04.01	11	<b>Technological controls</b>			
	11/1	Sample 50 g of granulate according to SOP SF.CF 004 and carry out the following controls:	Quantity sampled: 50 g		
		Apparent density (SOP SF.TF 036) <input checked="" type="checkbox"/>	Equipment: .....		
	11/2	Limit of: <u>N.A.</u> g/mL	Quantity of mix used: 50 g		
			V <sub>0</sub> : <u>92</u> mL HOLES APPEAR AND DATA NOT RECORDED IN PROCESS [initials] 02/03/01		
			V <sub>10</sub> : ..... mL V <sub>500</sub> : ..... mL		
			V <sub>1250</sub> : ..... mL V <sub>2500</sub> : ..... mL		
			Da = <u>82</u> g/mL Di = ..... g/mL		
			<u>α543</u>		
		Granulometry (SOP SF.TF 034) <input checked="" type="checkbox"/>	14/04/01 [initials]		
		Limits	Equipment: <u>JEL 200 SO/SU/01</u>		
	11/3	> 1000 μm: <u>2.1</u> %	Quantity of mix used: 50 g		
		between 710 and 1000 μm: <u>N.A.</u> %	> 1000 μm: <u>0</u> %		
		between 500 and 710 μm: <u>N.A.</u> %	between 710 and 1000 μm: <u>+ 0.50 1.00</u> %		
		between 250 and 500 μm: <u>N.A.</u> %	between 500 and 710 μm: <u>5.04 2.52 5.04</u> %		
		between 106 and 250 μm: <u>N.A.</u> %	between 250 and 500 μm: <u>16.3 8.15 16.30</u> %		
		< 106 μm: <u>N.A.</u> %	between 106 and 250 μm: <u>20.35.00</u> %		
			< 106 μm: <u>66.3.83</u> %		
	1-	<b>Analytic controls</b> [initials] 06/04/01			
		Collect ..... (number of) granulated samples (in duplicate), according to SOP SF.CF 004 and send them to analysis for homogeneity control.	Quantity sampled: ..... g		
			See analytical controls in process		
11.04.01	12	<b>Granulation yield control</b>	<b>Granulation obtained:</b>		
	12/1	Determine the net quantity of granulated mass obtained from the sampling for technological and analytical controls.	Gross: <u>4460</u> g		
			Tare: <u>300</u> g		
	12/2	Granulation yield % = D / theoretical	Net: <u>4160</u> g (D)		
		Theoretical 4503.3g	GRANULATION YIELD % = <u>92.38</u> (E)		

Product: SU10398	Lot: I83K01	Room: 72	Page: 14 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	Granulation completion	

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
10. 04. 01	<u>13</u> <u>13/1</u>	<b>Mix preparation</b> Redo the proportions and weigh the excipients listed below based on the granulation yield (E) calculated in point <u>12/2</u> . Send the residual excipients to be destroyed.	<input type="checkbox"/>		
	<u>13/2</u>	<u>CROSCARMELLOSE SODIUM</u> Quantity to be weighed = <u>140.0</u> g x E/100 = <u>129.3 g</u> Lot: <u>AA10E113</u>	Lot: <u>AA10E113</u> Gross: <u>135.30</u> g Tare: <u>6.00</u> g Net: <u>129.30</u> g Scale ID number: <u>SO-BL-32</u>	[signature]	[signature]
		<u>VEGETABLE MAGNESIUM STEARATE</u> Quantity to be weighed = <u>23.3</u> g x E/100 = <u>21.52 g</u> Lot: <u>AA10L028</u>	Lot: <u>AA10L028</u> Gross: <u>27.52</u> g Tare: <u>6.00</u> g Net: <u>21.52</u> g Scale ID number: <u>SO-BL-32</u>		
	<u>13/3</u>	Quantity to be weighed = _____ g x E/100 = _____ Lot: _____	Lot: _____ Gross: _____ g Tare: _____ g Net: _____ g Scale ID number: _____		
		Quantity to be weighed = _____ g x E/100 = _____ Lot: _____	Lot: _____ Gross: _____ g Tare: _____ g Net: _____ g Scale ID number: _____		
		Quantity to be weighed = _____ g x E/100 = _____ Lot: _____	Lot: _____ Gross: _____ g Tare: _____ g Net: _____ g Scale ID number: _____		

Product: SU10398	Lot: I83K01	Room: 72	Page: 15 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	Granulation completion	

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 11	14	<b>Preliminary sieve analysis of the raw materials</b>			
	14/1	Sieve analyze the raw materials: <u>CROSCARMELOSE SODIUM</u> ..... ..... ..... ..... through a ..... ..... <u>1-1.5 mm</u> ..... gauge sieve. Equipment type: ..... ..... <u>SIEVE</u> .....	Equipment used: ..... ..... <u>SIEVE</u> ..... ID number: ..... <u>1</u> ..... Cleaning verification: ..... <u>OK</u> ..... Gauge: ..... <u>1 min.</u> .....	[signature]	[signature]
01 04 11		<b>Mixing</b>  Load the granulate from point 12/1 and the raw materials that fulfill the provisions of point 13., with the exception of <u>VEGETABLE MAGNESIUM STEARATE</u> , into the <u>20 LITER 'V' PELLEGRINI</u> type mixer and mix for <u>5</u> minutes at a speed of <u>35</u> rpm.  Add to the premix described in point 15/1 the <u>VEGETABLE MAGNESIUM STEARATE</u> and mix for <u>5</u> minutes at a speed of <u>35</u> rpm.  At the end of mixing, empty the mix into the appropriate container of ..... ..... <u>DOUBLE P.E. BAG</u> .....	Equipment used: ..... <u>PELLEGRINI MIXER</u> ID number: ..... <u>209 'V' SO-MS-27</u> ..... Cleaning verification: ..... <u>OK</u> ..... r.p.m.: ..... <u>35</u> ..... Start time: ..... <u>14:15</u> ..... End time: ..... <u>14:20</u> .....  Start time: ..... <u>14:25</u> ..... End time: ..... <u>14:30</u> ..... r.p.m.: ..... <u>35</u> .....  <input checked="" type="checkbox"/>	[signature]	[signature]



Product: SU10398	Lot: I83K01	Room: 69/72	Page: 16 of 20
Pharmaceutical form: Granulated		Dosage: 75% W/W in API	
Granulation completion			

DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
01 04 11	16	<b>Technological controls</b>			
	<div style="margin-bottom: 10px;"> <u>16/1</u> Sample 50 g of mix according to SOP SF.CF 004 and carry out the following controls: </div> <div> <u>16/2</u> Apparent density (SOP SF.TF 036) <input checked="" type="checkbox"/>  Limit of: <u>N.A.</u> g/mL </div>	Quantity sampled: <u>50</u> g  Equipment: <u>STAV 2003 (SO/PY/01)</u> Quantity of mix used: <u>50</u> g V <sub>0</sub> : <u>90</u> mL V <sub>10</sub> : <u>76</u> mL      V <sub>500</sub> : <u>70</u> mL V <sub>1250</sub> : <u>70</u> mL      V <sub>2500</sub> : <u>      </u> mL Da = <u>90</u> g/mL      Di = <u>0.714</u> g/mL <u>0.556</u> <u>11/04/01</u> [initials]	[signature]	[signature]	
<div style="margin-bottom: 10px;"> - Granulometry (SOP SF.TF 034) <input type="checkbox"/> </div> <div> Limits  &gt; 1000 µm: <u>      </u> %  between 710 and 1000 µm: <u>      </u> %  between 500 and 710 µm: <u>      </u> %  between 250 and 500 µm: <u>      </u> %  between 106 and 250 µm: <u>      </u> %  &lt; 106 µm: <u>      </u> % </div>	<div style="margin-bottom: 10px;"> Equipment: <u>      </u> </div> <div> Quantity of mix used: <u>      </u> g  &gt; 1000 µm: <u>      </u> %  between 710 and 1000 µm: <u>      </u> %  between 500 and 710 µm: <u>      </u> %  between 250 and 500 µm: <u>      </u> %  between 106 and 250 µm: <u>      </u> %  &lt; 106 µm: <u>      </u> % </div>				
	-	<b>Analytic controls</b>			
		- Collect <u>      </u> (number of) mix samples (in duplicate), according to SOP SF.CF 004 and send them to analysis for homogeneity control:	<div style="margin-bottom: 10px;"> [initials] <u>06/04/01</u> </div> Quantity sampled: <u>      </u> g See analytical controls in process		
01 04 11	17	<b>Final mix yield control</b>			
	<u>17/1</u> Determine the net quantity of mix obtained from the sampling for technological and analytical controls.	Mix obtained:  Gross: <u>4610.57</u> g Tare: <u>300.25</u> g Net: <u>4310.32</u> g	[signature]	[signature]	



# Pharmacia & Upjohn

Pharmaceutical Development / Oral Solids and Warehousing

Product: SU10398		Lot: I83K01		Page: 18 of 20	
Pharmaceutical form: Granulated		Dosage: 75% W/W in API			
DATE	OPER. No.	OPERATION DESCRIPTION	PRODUCTION DATA	OPERATOR	VERIFIER
		<p>If the results of the sampling sorting are outside the set limits, proceed to unit sorting of the lot as described in the attached form.</p> <p>At the end of the sorting operation, send the discarded product to be destroyed.</p>	<p><input type="checkbox"/></p> <p>[initials] 06/04/01</p> <p><input type="checkbox"/></p>		
11 04 01	18	<p><b>Counter sampling</b></p> <p>18/1 Sample 1 g OF MIX AND. (number) units and [initials] 06/04/01</p> <p>package them in: V.G. BOTTLE</p>	<p>Quantity sampled: No. 1 g</p> <p><input checked="" type="checkbox"/></p>	[signature]	[signature]
11 04 01	19	<p><b>Final lot yield control</b></p> <p>19/1 Proceed to the quantitative verification of the available product.</p> <p>[initials] 06/04/01</p> <p>Numeric yield = <math>U / \text{average weight}^{(*)}</math></p> <p>(*) Taken from the final controls</p> <p>19/2 % Yield = <math>(V / \text{THEORETICAL}^{(*)}) * 100</math></p> <p>(*) T of page 1</p>	<p>Available product</p> <p>Gross: 4610.31 g 7.08 Gross</p> <p>Tare: 300.00 g 2800 Tare</p> <p>Net: 4310.31 g (U) 4280 Net</p> <p>Numeric yield = 4310.31 [initials] (V)</p> <p>4280 YIELD No.</p> <p>[initials] 11/04/01</p> <p>% Yield: 92.37 [initials] (Z)</p> <p>91.72</p>	[signature]	[signature]
11 04 01	20	<p><b>Deposit in the warehouse</b></p> <p>20/1 Load the finished product and the counter sample into the SF/Warehouse, stocking them at: room temperature.</p>	<p><input checked="" type="checkbox"/></p>	[signature]	[signature]

Edition No.: 7 of 10/05/99  
Substitutes edition No.: 6 of 03/11/97

Checked by: [signature]

# Pharmacia & Upjohn

Pharmaceutical Development / Oral Solids and Warehousing

Product: SU10398	Lot: I83K01	Page: 19 of 20
Pharmaceutical form: Granulated	Dosage: 75% W/W in API	

DATE	OPERATION No.	NOTES	OPERATOR	VERIFIER
06/04/01	3/2, 6/1 and 6/2	PRELIMINARY NOTE. AS THE FIRST LOT OF GRANULATE PREPARED WITH THIS BATCH SIZE AND PROCESS, THE WETTING PHASE WILL BE PROCEEDED TO WITH EXTREME CAUTION.		
		A QUANTITY OF WATER EQUAL TO APPROXIMATELY HALF OF THE THEORETICAL QUANTITY IS ADDED TO THAT OF POINT 6/1. THEN		
		APPROPRIATE PARTS ARE ADDED (6/2) UNTIL A GRANULATE IS OBTAINED WHICH SATISFIES [illegible].		
		THEORETICAL QUANTITY OF WATER = 277 IN WEIGHT => $4503 \text{ G} \times 27/100$		
		=1216 g		
		QUANTITY TO WEIGH OUT AND ADD = 610 g		
		[signature]		
10/04/01	3/2	ADD 600 g OF H <sub>2</sub> O TO THE WET GRANULATE		
		[signature]		

Edition No.: 7 of 10/05/99 Substitutes edition No.: 6 of 03/11/97	Checked by: [signature]
--	-------------------------

Pharmacia  
& Upjohn

Pharmaceutical Development / Oral solids and warehousing

Product: SU10398	Lot: I83K01	Room:	Attachment No.: / Page: /9
Pharmaceutical form: Granulated	Dosage: 75% W/W in API		

[illegible]

Operator's Signature: \_\_\_\_\_

Verifier's signature: \_\_\_\_\_

Edition No.: 7 of 10/05/99  
Substitutes edition No.: 6 of 03/11/97

Checked by: \_\_\_\_\_

Product: SU10398

Lot: I83K01

Page 20 of 20

Pharmaceutical form: Granulated

Dosage: 75% W/W in API

**LOT APPROVAL**

**OPERATIVE VERIFICATION of the "ORAL SOLIDS" SECTION**

NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE:

[signature]

DATE:

02/05/01

**CHIEF of "ORAL SOLIDS and WAREHOUSING" APPROVAL**

RESULTS: APPROVED ☒

REJECTED ☐

NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE:

[signature]

DATE:

21/05/01

**USE AUTHORIZATION OF THE CHIEF of "Q.C./PHARMACEUTICAL CONTROLS"**

RESULTS: APPROVED ☒

REJECTED ☐

NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE:

[signature]

DATE:

15/06/2001

SF/ORAL SOLIDS

PRODUCT .....

LOT .....

PREPARATION DATE .....

ATTACHED INDEXES

1. ☐ ACTIVE PRINCIPLE ANALYSIS REPORT
2. ☐ IN PROCESS ANALYTIC CONTROLS REPORT
3. ☒ PROCESS WATER REPORT
4. ☒ ENVIRONMENTAL PARAMETER MONITORING
5. ☒ RAW MATERIALS/PACKAGING MATERIALS REQUESTS
6. ☐ FINISHED PRODUCT ANALYSIS REPORT
7. ☐ BACTERIAL LOAD REPORT
8. ☒ FINISHED PRODUCT DELIVERY FORM
9. ☐ ANALYSES CERTIFICATE
10. ☐ RAW DATA, in process weight controls.
11. ☒ SCHEDULED DEVIATION: WEIGH API IN ORAL SOLIDS PROCESSING ROOM
12. ☒ SCHEDULED DEVIATION: INTERMEDIATE CLEANING ONLY BETWEEN LOTS SU 11248 AND SU10348
13. ☐ .....
14. ☐ .....



LOT I83K01 [initials] 02 MAY 2001  
ATTACHMENT 5

PHARMACEUTICAL DEVELOPMENT  
ACTIVE PRINCIPLES REQUEST

PRODUCT <u>SU10398</u>	CODE <u>1502</u>	LOT <u>(A) 5975-MTM-0002-N2</u>	
QUANTITY REQUESTED IN GRAMS <u>3574.0</u>		SCALE <u>*</u>	TITER <u></u>
QUANTITY DELIVERED IN GRAMS <u>3580 **</u>		STORAGE <u>-20°C</u>	
FINISHED PRODUCT LOT <u>I83K01</u>	PHARMACEUTICAL FORM [initials] 03/04/01 <u>CAPSULE GRANULATE</u>	DOSAGE <u>50g <del>FREE BASE</del> 75% W/W</u> [initials] 03/04/01	
TO BE MADE READY BEFORE <u>06/04/01</u>		SCOPE OF THE REQUEST <u>CLINICAL MANUFACTURING</u>	
REQUESTING SECTION: <u>ORAL SOLIDS</u>	PRODUCT PREPARATION	PRODUCT COLLECTION	
Date: <u>03/04/01</u> Signature: [signature]	Date: <u>10-04-01</u> Operator's signature: [signature] Verifier's signature: [signature] Chief's signature: [signature]	Date: <u>10-04-01</u> Signature: [signature]	
PROJECTS COORDINATION: _____			
NOTE: <u>* Lot "under analyses"</u>			
<u>** [illegible] done directly by the section</u> [signature] <u>10/4/01</u>			



**PHARMACEUTICAL DEVELOPMENT  
EXCIPIENTS REQUEST**

PRODUCT: <i>SU10398</i>				
LOT/PREPARATION: <i>I83K01</i>				
PHARMACEUTICAL FORM: [initials] <i>03/04/01</i> <i>CAPSULE GRANULATED</i>			DOSAGE: <del>50 mg (as Free-base)</del> <i>75% W/W</i>	
SCOPE OF THE PREPARATION: <i>CLINICAL MANUFACTURING</i>			[initials] <i>03/04/01</i>	
EXCIPIENT NAME	CODE	LOT	QUANTITY (in grams)	UNDER ANALYSES
MANNITOL	<i>723</i>	<i>AE130</i>	<i>556.0</i>	
POLYVINYLPIRROLIDONE K25	<i>931563000</i>	<i>AA10G041</i>	<i>233.3</i>	
CROSCARMELLOSE SODIUM	<i>920755200</i>	<i>AA10E113</i>	<i>140.0</i>	
CROSCARMELLOSE SODIUM	<i>920755200</i>	<i>AA10E113</i>	<i>140.0</i>	
VEGETABLE MAGNESIUM STEARATE	<i>927406000</i>	<i>AA10L028</i>	<i>23.3</i>	
NOTES: <u><i>MAKE READY PRIOR TO 06/04/01</i></u> [initials]				
REQUESTING SECTION: <i>ORAL SOLIDS</i>	PRODUCT PREPARATION		PRODUCT COLLECTION	
Date: <i>03/04/01</i>  Signature: [signature]	Date: <i>04-04-01</i> Operator's signature: [signature] Verifier's signature: [signature] Chief's signature: [signature]		Date: <i>10/04/01</i>  Signature: [signature]	

MTF017\_5

**PHARMACEUTICAL DEVELOPMENT  
PACKAGING MATERIALS REQUEST**

PACKAGING MATERIALS					
MATERIAL	CODE	LOT	QUANTITY REQUESTED	QUANTITY SENT	UNDER ANALYSES
<i>KRAFT BARRELS</i>	<i>771350000</i>	<i>VARIOUS</i>	<i>No. 2</i>	<i>2</i>	
<i>PE BAG FOR BARREL</i>	<i>735573000</i>	<i>AA39N054</i>	<i>No. 10</i>	<i>10</i>	
<i>PE BAG 350 X 580 mm</i>	<i>735190000</i>	<i>AA38L198</i>	<i>No. 10</i>	<i>10</i>	
<i>PE BAG 280 X 330 mm</i>	<i>735170000</i>	<i>AA38D091</i>	<i>No. 15</i>	<i>15</i>	

PRODUCT TO BE PACKAGED: <i>SU10398</i>	PHARMACEUTICAL FORM: <i>GRANULATE</i>
Dosage: <i>75% W/W IN API</i>	Lot: <i>I83K01</i>

REQUESTING SECTION <i>ORAL SOLIDS</i>	PRODUCT PREPARATION	PRODUCT COLLECTION
Date: <i>03/04/01</i> Signature: [signature]	Date: <i>05/04/04</i> Operator's signature: [signature] Verifier's signature: [signature] Chief's signature: [signature]	Date: <i>10/04/01</i> Signature: [signature]

*MTH014\_4*

*NOTE. MAKE READY PRIOR TO 06 APRIL 2001 [initials]*

LOT I83K01 [initials] 02/05/01

**PHARMACEUTICAL DEVELOPMENT / QUALITY ASSURANCE**

**AUTHORIZATION TO USE THE PRODUCT  
WHILE IN THE UNDER ANALYSIS STATUS**

\_\_\_\_\_  
\_\_\_\_\_  
The use of the product is authorized

Name/Initials SU 10398

Lot (A) 5975-MTM-0002-N2

Pharmaceutical form \_\_\_\_\_

Dosage \_\_\_\_\_

For SU10398 – granulate lot I83K01 for clinic

Date: 05 APR. 2001

Signature [signature]

LOTTO I83K01  
ALL.4

29/05/01

29-05-01 20:38

- 1-

fabbC

MAN-ORAL

RIEPILOGO ALLARMI SISTEMA C4

Point/Acknowledge Event Report with following specifications:

Start Date/Time : 10-04-01 08:00

Stop Date/Time : 11-04-01 17:00

Time Range : --- days -- hours

Selected Events : Point Events

Point Keyname	Point Descriptor
1 65C-33.0-CDZC4MIRIPMTH3	UMID.RIPR.MOUNTER H3 LIMITE (25%RH
2 65C-33.0-CDZC4MIRIPMTH4	UMID.RIPR.MOUNTER H4 LIMITE (25%RH
3 65C-33.0-CDZC4MIRIPMTH5	UMID.RIPR.MOUNTER H5 LIMITE (25%RH
4 65C-33.0-CDZC4MIRIPMTH6	UMID.RIPR.MOUNTER H6 LIMITE (25%RH
5 65C-33.0-CDZC4MIRIPMTH7	UMID.RIPR.MOUNTER H7 LIMITE (25%RH
6 65C-33.0-PILOCALE0025	PRES.LOC.025 LIMITE (-0.8/0.0)
7 65C-33.0-PILOCALE0026	PRES.LOC.026 LIMITE (-0.8/0.0)
8 65C-33.0-PILOCALE0029	PRES.LOC.029 LIMITE (-0.8/0.0)
9 65C-33.0-PILOCALE0030	PRES.LOC.030 LIMITE (-0.8/0.0)
10 65C-33.0-PILOCALE0033	PRES.LOC.033 LIMITE (-0.8/0.0)
11 65C-33.0-PILOCALE0034	PRES.LOC.034 LIMITE (-0.8/0.0)
12 65C-33.0-PILOCALE0037	PRES.LOC.037 LIMITE (-0.8/0.0)
13 65C-33.0-PILOCALE0038	PRES.LOC.038 LIMITE (-0.8/0.0)
14 65C-33.0-PILOCALE0043	PRESSIGNE LOCALE 043 LIMITE(-0.8/0.0)
15 65C-33.0-PILOCALE0048	PRESSIGNE LOCALE 048 LIMITE(-0.8/0.0)
16 65C-33.0-PILOCALE0053	PRESSIGNE LOCALE 053 LIMITE(-0.8/0.0)
17 65C-33.0-PILOCALE0058	PRES.LOC.058 LIMITE (-0.8/0.0)
18 65C-33.0-PILOCALE0062	PRES.LOC.062 LIMITE (-0.8/0.0)
19 65C-33.0-PILOCALE0065	PRES.LOC.065 LIMITE (-0.8/0.0)
20 65C-33.0-PILOCALE0068	PRES.LOC.068 LIMITE (-0.8/0.0)
21 65C-33.0-PILOCALE0072	PRES.LOC.072 LIMITE (-0.8/0.0)
22 65C-33.0-PILOCALE0073	PRES.LOC.073 LIMITE (-0.8/0.0)
23 65C-33.0-PILOCALE0076	PRES.LOC.076 LIMITE (-0.8/0.0)
24 65C-33.0-PILOCALE0077	PRES.LOC.077 LIMITE (-0.8/0.0)
25 65C-33.0-PILOCALE0080	PRES.LOC.080 LIMITE (-0.8/0.0)
26 65C-33.0-PILOCALE0081	PRES.LOC.081 LIMITE (-0.8/0.0)

LOG TIME	KEYNAME	VALUE	ENG.UNIT
	SYSTEM ALARM TEXT	OPERATOR	PREFIX
	POINTDESCRIPTOR		

A total of 0 records were found for "Historical Activity Inquiry".

END OF REPORT

[initials] 2/05/01  
LOT I83K01 ATTACHMENT 8

## Pharmacia & Upjohn

### PILOT PLANT FORMULATION DEVELOPMENT

#### FINISHED PRODUCT DELIVERY FORM

DATE: 11 / 04 / 2001

PRODUCT: SU10398 PREPARATION DATE: 04 / 01 APPROVED ☐

LOT: I83K01 UNDER ANALYSES ☒

DOSAGE: 75% W/W FORMULA NO.: /

RAW MATERIAL LOT: (A) 5975-MTM-0002-N2

QUANTITY 4280 + COUNTER SAMPLE Ig TOTAL 4281

ADMINISTRATION: oral ☒ injectable ☐ topical ☐ drops ☐

#### PHARMACEUTICAL FORM

LYOPHILE ampoule ☐ vial ☐

SOLUTION/SUSPENSION bottle ☐ vial ☐ ampoule ☐ small flask ☐ bag ☐

OINTMENT tube ☐ jar ☐

gel ☐ cream ☐ paste ☐ salve ☐

TABLET simple ☐ film-coated ☐ sugar-coated ☐

gastrointestinal ☐ soluble/effervescent ☐

dimensions/form: \_\_\_\_\_

average weight: \_\_\_\_\_

packaging: \_\_\_\_\_

CAPSULE hard gelatin ☐ soft gelatin ☐

format: \_\_\_\_\_ average weight: \_\_\_\_\_

color: \_\_\_\_\_

printing: \_\_\_\_\_

packaging: \_\_\_\_\_

POWDER/GRANULATE oral ☒ injectable ☐ inhalational ☐

packaging: Double P.E. bags/ Kraft Barrel

STORAGE room temperature ☒ +4°C ☐ -20°C ☐ -80°C ☐

other conditions: \_\_\_\_\_

POSSIBLE NOTES: \_\_\_\_\_

PERSON IN CHARGE: [signature]



LOT 183K01 [initials] 02/05/01  
ATTACHMENT 3  
Pharmacia & Upjohn

### Analyses Report

28-05-2001

Page 1 of 1

**Specifications:** V 0012PQ  
**Lot ID:** 700066554  
**Request num.:** 200063176

Vers. 7 ZZ DEMINERALIZED T.D.I. WATER  
of 10 APRIL 2001 **Requester:** 701

**Lot:** CONTRAST 42  
**Sample arrival:** 10 April 2001  
**Planned finish:** 10 April 2001  
24 April 2001

**Product:** ZZ  
**Request Notes:** Collection on 10 April 2001  
Requesting Section: Oral Solids  
Contrast 42 used for the preparation of product SU10398  
Lot: 183K01

**Signatures of those in charge:**

CB GIANI 17 APRIL 2001  
B GIANI 17 APRIL 2001  
**Analyses finish** CRISTINA 18 APRIL 2001

**Characteristics:** Clean colorless liquid

**Storage method:**

Phase	Method	Vs. Description	M.U.	Limits			Result	Quantity	Page	Signed
				(-Min-)	(-Max-)	(---Test---)				
9706xx	4	TOTAL AEROBIC MICROORGANISMS	UFC/ml	50			0	2505	8	GALIMLAO

## SCHEDULED DEVIATION REQUEST

<b>SECTION:</b>  <p style="text-align: center;"><b>Warehouse</b></p>	<b>No.:</b> <p style="text-align: center;">13/01</p> <p style="text-align: right;">(as performed by the QA/Quality Systems Section)</p>
<b>DOCUMENT NUMBER AND TITLE:</b>  <p>SOP SF.TD 077 SOP SF.TH 017</p>	
<b>PRODUCT/MATERIAL/LOT:</b>  <p>SU-10398 API Lot: (A) 5975-MTM-0002-N2</p>	<b>ACTIVITY:</b>  <p>Product requested for the preparation of granulate (lot: I83K01) intended for preparations for clinical use.</p>
<b>DESCRIPTION OF PROPOSED DEVIATION:</b>  <p>Performed the weighing in room 072 of the Orals Solid Products R&amp;D section rather than in the laminar flow cabin (machine ID: MGZ/FL/002) positioned in room 909, as provided for in the procedure. The weighing operations performed by Oral Solid Products R&amp;D personnel.</p>	
<b>MOTIVATION:</b>  <p>Due to the particular nature of the product (excessively coloring) it was desired to avoid rendering the laminar flow cabin unusable for several days (with the consequential delays in the fractioning/sampling operations), for the time needed to carry out an accurate cleaning of the cabin.</p>	
<div style="display: flex; justify-content: space-between;"> <div> <b>SIGNATURE/DATE</b>  <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 100px; margin-right: 5px;"></div> <div> [signature]  N. Gabriele </div> </div> </div> <div> <div style="border-bottom: 1px solid black; width: 100px; margin-right: 5px;"></div> <div> Apr. 03, 2001 </div> </div> </div>	
<p>For a process, provide the start and end dates of the process in advance:</p> <p>April 09, 2001 - April 30, 2001 [signature] 05/04/01</p>	
<b>DEVIATION APPROVAL</b>	
<b>SECTION CHIEF:</b>  <div style="border-bottom: 1px solid black; width: 100px; margin-top: 10px;"></div> [signature]	<b>QA/QUALITY SYSTEMS:</b>  <div style="border-bottom: 1px solid black; width: 100px; margin-top: 10px;"></div> [signature] <div style="text-align: right; margin-top: 5px;">05.04.2001</div>

**Attachment to the SCHEDULED DEVIATION REQUEST No. 13/01**

**INTERVENTIONS TO BE PERFORMED**

In order to guarantee the safety of the operators individual protection systems must be adopted for the work in question.

Furthermore in order to guarantee the appropriate operations documentation and traceability of the product movements the interventions below listed must be carried out:

1. All the weighing operations and their relative recording must be performed by an operator in the presence of a verifier, each of whom at the end of the operations will sign and date the relative documentation.
2. Verify that room 072 is clean and clear of the materials used for the previous process.
3. Verify that the scale to be used is properly approved, calibrated, and verified with the sample weight and is zeroed.
4. Perform the weighing of the active principle, recording all the operations performed in the section pertinent to the Batch Record.
5. Fill in the Active Principles Request Form, and indicate the quantity of active principle weighted out, then sign and date as indicated in 1.
6. Close the container containing the active principle and clean the outside of it with rags wet with water.
7. Close the room's container prior to beginning the processing.
8. Deliver the active principle container to the Warehouse, along with the documentation stating the amount removed.
9. Proceed to the registration of the material transactions.

Quality Assurance/Quality Systems \_\_\_\_\_ [signature] 05.04.2001



## SCHEDULED DEVIATION REQUEST

<b>SECTION: Oral Solid Products R&amp;D</b>	<b>No.:</b> 14/01 <small>(as performed by the QA/Quality Systems Section)</small>
<b>DOCUMENT NUMBER AND TITLE:</b> SF.TD 069 Vers. 2: Cleaning of the equipment for the preparation of oral solids pharmaceutical products.	
<b>PRODUCT/MATERIAL/LOT:</b> SU010398 Lot (A) 5975-MTM-0002 (malate salt of SU011248)	<b>ACTIVITY:</b> Production of granulated lot 183K01 Production of capsules lot 183G02
<b>DESCRIPTION OF PROPOSED DEVIATION:</b> Execution of intermediary cleaning of the equipment previously used for the processing of SU011248 (lots 182K01 and 182G02). The cleaning of the equipment by vacuum and the cleaning of the fluid bed granulator is to be carried out with TDI Water. Then we will proceed to sampling the equipment used in the points indicated in the communication of 2 April (see Attachment 1) solely for informative purposes.	
<b>MOTIVATION:</b> The technical rationale for the deviation is provided in the attached documentation: Attachment 2: Memorandum by Sardar Ali (09/02/01) Attachment 3: Communication by David Hahn (14/02/01)	
SIGNATURE/DATE      [signature]      06/04/01	
For a process, provide the start and end dates of the process in advance:  <del>17-20 April 2001</del> 09-30 April 2001 [signature] 06/04/01	
<b>DEVIATION APPROVAL</b>	
<b>SECTION CHIEF:</b>  [signature]	<b>QA/QUALITY SYSTEMS:</b>  [signature]      April 6th, 2001

Author: Paolo Gatti at itnerpo4  
Date: 4/2/01 4:55 PM  
Priority: Normal  
CC: Rosaria Mariani, Luciano Gambini, Paolo DellaVedova, Mauro Olivieri,  
Donata Giudici at ITNERPO1  
TO: Irma Facchetti

[Subject:] Re [3]: Intermediate cleaning between the manufacturing of SU011248 and SU010 capsules.

Hi Everyone,

Luciano and I have defined which points to sample and analyze in the machines used for the processing of SU11248 cleaned with intermediate cleaning prior to working on SU10398.

It has been decided that one point per machine will be sampled, considering that the result with the greatest residue per unit is superficial after the greater cleaning performed prior to the first lot of SU11248 capsules.

In absolute, the following points will be sampled and analyzed (here is the detailed list for Giorgio who will prepare the swabs accordingly):

Zanasi capsule sealer	Hopper base	(OP/05/1P)
Viani Oscillating Granulator	Rear rotor housing	(GS/03/1P)
Glatt 5 Fluid bed dryer	Spy zone	(LF/02/1P)
Diosna Speed Granulator	Crusher	
Pellegrini V Mixer	Bottom	(MS/27/2P)

I spoke with Giorgio and tomorrow he will take the samples and send the swabs to Rita.

The list of sample points will be inserted into the scheduled deviation that will be drawn up to support the "in campaign" processing of the two products which have different instructions (11248 and 10398).

I will meet tomorrow morning with Luciano and Donata about this.

Bye everyone.

Paolo

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Reply Separator

Subject: Re[2]: Cleaning intermedio fra mfg capsule SU011248 ed SU010  
Author: Irma Facchetti at itnerpo4  
Date: 02/04/01 14.21

Paolo,

I'm sorry for the lack of understanding about the deviation.

When operation methods different from those described in a SOP are adopted (such as in this case), it is necessary to follow the procedure regarding the deviations.

Bye,  
Irma

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Reply Separator

Subject: Re: Cleaning intermedio fra mfg capsule SU011248 ed SU010398  
Author: Paolo Gatti at itnerpo4  
Date: 4/2/01 1:09 PM

Irma,

With regard to the scheduled deviation, I would ask that you forward Sugan's memo and Dave's email to me so that I can get things going as soon as possible with Donata. Only one thing is not clear. It is the first time I have heard about the need for scheduled deviation even though it's been at least a month that we've known we would have only done one intermediate cleaning. I have nothing against doing these documents, and I'm absolutely not arguing, but sometimes it would be better if things were defined a little bit in advance.

In my opinion, the same is true for the sampling and analyses. Tomorrow Giorgio will sample the machines in all the points indicated

by the respective cleaning SOP (I think we all agree on this), so that the analyses can be performed. However the execution time is also linked to the availability of Rita's group, as well as to the decision regarding which points are effectively to be analyzed.

I repeat my warning (and I think Rita would agree...) that it is not logical to analyze all the points if they are not strictly necessary according to the rationale with which this verification is to be handled, and which I will evaluate first with Paolo Della Vedova to be sure I have properly understood.

Thank you for your quick update after our chat this morning.

Bye,  
Paolo

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Reply Separator

Subject: Cleaning intermedio fra mfg capsule SU011248 ed SU010398  
Author: Irma Facchetti at itnerpo4  
Date: 02/04/01 12.49

Paolo,

Speaking as QA, I ask that you:

-open a scheduled deviation request and attach the documents detailing the rationale. There is a Memo by Sugan and an E-mail by Dave which will be formalized into a Memo shortly.

With regard to the sampling requested by Shahe:

-within the bounds of the cleaning procedure, for an intermediate type cleaning, no sampling is provided for. The choice of critical points to be examined will be defined with Paolo Della Vedova.

-it would be advisable to carry out these doses within the shortest possible time provided that there is no data or valid rationale which would allow claims to be made regarding the stability of the product under the conservation conditions and time periods that are to be defined.

Best regards  
Irma



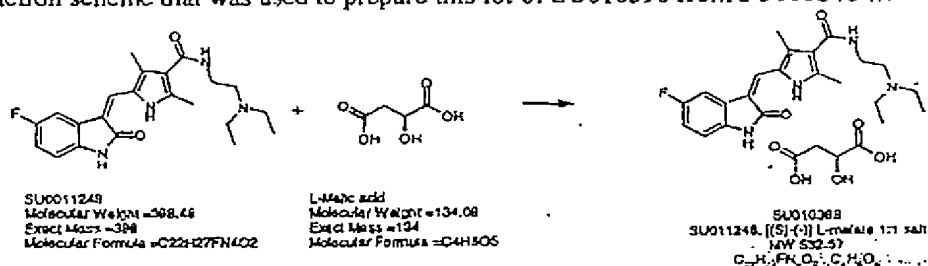
Memorandum

To:	Sardar Ali	From:	Peter Giannousis
Dept:		Dept:	PCPD - Analy & Chem. Dev.
Loc./Tel.		Loc./Tel.	B2-2403 : X3705
Cc:	Arun Koparkar, James Gage, Bhavesh Patel	Date:	09-Feb-01
Subject:	Genealogy of SU010398 lot (A)5975-MTM-0002		

Dear Sardar,

Per your request, the following is a summary of the genealogy of SU010398 lot (A)5975-MTM-0002.

The reaction scheme that was used to prepare this lot of SU010398 from SU011248 is:



In fact SU011248 lot (A2)5953-TJF-0003 was used as starting material to prepare SU010398 lot (A)5975-MTM-0002. SU010398 is the L-malate salt of SU011248, and as such contains about 75% of SU011248 by weight.

The impurities in SU011248 lot (A2)5953-TJF-0003 were higher than those in the previous lots of SU011248 that were tested in GLP toxicological studies. Therefore SU011248 lot (A2)5953-TJF-0003 was qualified for human use by repeating the 2-week tox study. A memo was issued in early January from Toxicology, certifying that there were no significant differences seen in the tox studies with the new lot versus previous lots of SU011248.

The impurities in SU010398 lot (A)5975-MTM-0002 were found to be similar or lower than those in SU011248 lot (A2)5953-TJF-0003. In fact this lot of SU010398 is being used in 3-month GLP tox studies, with results available in May-June 2001.

Based on these facts, it would be expected that there should be no contamination issues in sequential capsule manufacture, as long as the bulk of the SU011248 and the excipients are removed from the equipment. In other words, one would expect that the API impurities would be comparable, and the amount of freebase left in the equipment should be much less than weighing errors of the L-malate salt.

*Peter Giannousis*  
Peter Giannousis

CONFIDENTIAL

Author: David A Hahn at ITNERPO5  
Date: 2/14/01 4:39 PM  
Normal  
TO: bhavesh-patel@sugen.com at SUGEN, chandu-hegde@sugen.com at SUGEN,  
peter-giannousis@sugen.com at SUGEN, sardar-ali@sugen.com at SUGEN  
CC: Marco Adami at ITNERPO4, Marina Baldi at ITNERPO4, Irma Facchetti at ITNERPO4,  
Paolo Gatti at ITNERPO4, Rosaria Mariani at ITNERPO4, Mauro Olivieri at ITNERPO4,  
Luciano Gambini at ITNERPO4  
Subject: Re: Sequential capsule manufacturing from free base and L-ma  
----- Message Contents

Sardar,

Here is the general logic that I have in mind. This could be developed in more depth, or in a different way (to the extent allowed by the data). Please let me know what you think.

(1) Solubility and rotating disk dissolution rate data indicate that both the free base and the malate salt have solubility "more than sufficient to prevent solubility from being a limiting factor in the bioavailability," according to Study Report a0089789. Thus, a small amount of one material in the other would not be expected to have any impact on biological performance.

(2) Paolo estimates that after the proposed dry cleaning that the amount of granulation remaining would certainly be less than 10 grams (probably much less). If as much as 10 g remained, this would amount to less than 0.2% of a 5.3 kg granulation batch (using 3.5 kg FBE of API). Given the similar dissolution behaviors, the presence of 0.2% of a granulation of one salt in a granulation of the other would not be expected to influence the biological performance.

(3) Because the process uses wet granulation, the granulated material of which traces would remain on the surfaces of the equipment would likely be representative of the previous granulation, and would likely be incorporated homogeneously into the subsequent granulation. Thus, the presence of a small amount of material from the previous granulation would not be expected to significantly alter the chemical or physical properties of the subsequent granulation.

(4) And I understand that Peter is developing a rationale for safety of the impurity levels based on the genealogical relationship between the batches involved and based on the fact that the qualified impurities levels would allow use of either batch in humans.

Please let me know if you have any comments, questions or concerns.

Ciao,

Dave

Reply Separator

Subject: Sequential capsule manufacturing from free base and L-malate  
Author: Sardar Ali <sardar-ali@sugen.com> at SMTP-KZO  
Date: 2/12/01 5:37 PM

Dear Dr. Hahn,

ing in Nerviano (during my visit) with Irma, and Rita  
discussed the impact of sequential capsule  
manufacturing from free base and L-malate salt API's. As we discussed that  
the equipment will be dry cleaned (removing excipients from the equipment)  
after completing one batch and before moving to the next batch with  
different excipient. What we agreed was to get some scientific rationale  
from you and Peter to assure that the amount of free base traces left in the  
equipment will be non-detectable. Peter is preparing a summary of genealogy  
of SU010398 lot (A)S975-MTM-002 to justify that impurities in SU010398 are  
similar or lower than those in SU011248 lot. I will appreciate if we get  
some scientific rationale from you regarding this what you had agreed to  
provide us.

I am sorry that I did not get back to you earlier because the manufacturing  
plan was changed when I returned (Capsule manufacturing from the free base  
API only) but now it has been changed back to the same what we had discussed.

With Best Regards

Sardar Ali

QA Product Release Manager

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